

From owner-qrp-1@lehigh.edu Sun Apr 21 22:37:35 1996
From: "Brian.Buydens@usask.ca" <buydens@duke.usask.ca>
Subject: [7481] 40-9er problems
Message-ID: <Pine.OSF.3.91.960421101143.13661A-100000@duke.usask.ca>

On Saturday I took my 12 w.p.m. Morse code test and passed. Armed with this success I decided to finish putting together the 40-9er I ordered and try it out.

When I first tried it out I found that the oscillator was really hard to start. Once it started I was able to hear CW and even Sun 102 (a local FM station). But I could not tune the beast!

Then I realized I had the variable capacitor C6 in wrong. The way I had it in was such that it was just shorting. (I have the Reb. B board.) I now have it so that the two leads 180 degrees across from each other are connected together and attached to the RFC6, and the the lead in the middle is attached to the crystal.

Then I attached the radio back up to the antenna and tried it. Now what happens is I start to hear background noise, it gets louder and then it cuts out. If I turn the machine off and on the process starts over. I tried moving the potentiometer R1 to various positions but no luck. The only time I get sound is when it is completely clockwise and then I get the behavior I just described.

All I have for test equipment is a VOM. Are there any tests I can do with this to figure out what I am doing wrong?

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+-----+
| Brian Buydens, Computing Services, University of Saskatchewan |
| email: Brian.Buydens@usask.ca |
| VE5RDV |
+-----+
| Albert Einstein, when asked to describe radio, replied: "You see, wire |
| telegraph is a kind of a very, very long cat. You pull his tail in New |
| York and his head is meowing in Los Angeles. Do you understand this? |
| And radio operates exactly the same way: you send signals here, they |
| receive them there. The only difference is that there is no cat." |
+-----+
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From owner-qrp-1@lehigh.edu Sun Apr 21 22:37:35 1996
From: "Brian.Buydens@usask.ca" <buydens@duke.usask.ca>
Subject: [7489] 49-9er problems
Message-ID: <Pine.OSF.3.91.960421113844.12980B-100000@duke.usask.ca>

I think I'm going nuts. I looked at the diodes in the 40-9er. There is a dark band which I believe indicates negative. I installed them with the black band lining up with the band on the circuit board. I was testing the diode with my ohm meter (at 1.5 volts). when I place the neg. lead of the vom on the lead nearest the black band I get no conducting. But when I put the positive lead there it conducts. Could I have the diodes in backwards? I am interested to find out how others with Rev. B boards have installed the diodes. Thanks.

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| And radio operates exactly the same way: you send signals here, they |
| receive them there. The only difference is that there is no cat." |
+-----+
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From owner-qrp-l@lehigh.edu Sun Apr 21 22:37:35 1996
From: dgf@netcom.com (David Feldman)
Subject: [7495] 49-er - what is normal RF volts @ base of final?
Message-ID: <199604212146.0AA12848@netcom13.netcom.com>

I'm building up a 49-er using the norcal kit, and I'm unable to get any transmit output. The rest of the rig seems to work OK (even w/emergency sub of LM386 in audio final after accidental destruction of LM380-8!).

I get 1 volt PK-PK of RF at the base of the final. I don't think this is enough to drive the 2N3866 into conduction (1V pk-pk is 0.5v peak, and the transistor should need 0.7v to start conducting). I tried replacing the final, the 2N3904 driver, and the RF choke on the 2N3904 driver. I am getting RF at the base of the 2N3904 as expected, but not sure if it's enough either.

BTW I'm getting same results at 10.8V DC supply voltage.

Any hints?

73 Dave WB0GAZ dgf@netcom.com

From owner-qrp-1@lehigh.edu Sun Apr 21 22:37:35 1996
From: "Tim Stabler" <TSTABLER@iunhaw1.iun.indiana.edu>
Subject: [7497] altoids
Message-ID: <39E91208E0@iunhaw1.iun.indiana.edu>

When I went to my exam this morning (I passed), I saw a billboard along the highway for "Altoids". I have never seen a billboard for them anywhere before. But-----there it was!!!!

72 de WB9NLZ

Timothy A. Stabler, Ph.D.
Department of Biology
Indiana University Northwest
Gary, IN 46408

(219)980-6718
FAX: (219)980-7125

From owner-qrp-1@lehigh.edu Sun Apr 21 22:37:35 1996
From: bfollett@ditell.com
Subject: [7479] Battery Analysis
Message-ID: <199604211534.JAA04901@orion.ditell.com>

Gang:

Bill Launer recently posted a note about a good write-up on NiCad battery charging. All accessable though a Web page.

I got the article, which is very good. I also looked at the root page, and found the "Ultimate Battery Analyser" for sale. It runs on a PC, and does a full graphics plot of any discharge cycle based upon a selected load.

If you have \$200 burning a hole in your pocket, check it out. Or check it out anyway, as its the ideal way to measure battery performance.

The URL is: http://enterprise.ca/~vencon/uba/uba_info.html

73, Bob

Bob Follett WA7FCU, QRP-L # 129, NorCal, ARCI, 10-10
2861 Estates Dr. VOICE: 801.649.6457
Park City, UT 84060 Home Office E-mail: bfollett.ditell.com

From owner-qrp-1@lehigh.edu Sun Apr 21 22:37:35 1996
From: Jim.Nestor@EY.COM
Subject: [7499] Curtis Keyer Chips & weird weekend
Message-ID: <00145000028412550000002*@MHS>

Guys,

This has been a strange weekend, QRP project-wise. First the good news - I finished my NorCal/Wilderness 40 and I worked when I powered it up. Sort of.

The current drain was under 20 ma and no energy bi-product such as heat and light. The receiver made beautiful hissing sounds and tuned up just fine. The transmitter was dead as a stone, RF output-wise.

I noted that it did draw more current on transmit, but not a lot, so I suspected the PA stage. Checked all the voltages and they were as expected. Fired up the scope (it's an old Tektronix and it makes lots of heat and light) and did a little tracing. Sho nuff, I had RF out of the driver but nothing out of the PA.

After lots of fussing around with solder wick I extracted the PA transistor and replaced it with a 2N3553 out of the parts drawer. Just tacked it in with long leads and no heat sink and "Ta! Da!" it made watts.

I remember the instructions about being careful installing the PA heat sink after solder the transistor in-place. Also remember how hard it was to get the heat sink on, that's probably when I broke it.

This time, I put the heat sink on the transistor before soldering it in place. It was easier that way. Also used the needlenose pliers and spread the heatsink a bit before trying to put it on. Bottom line, I get an honest 2W at 12.75 volts.

Everything tuned up nicely and I worked a W0 near Chicago for 1st QSO with new toy. My hat's of to Wayne and the NorCal gang and Bob at Wilderness.

Now for the "bad news" of the weekend. I assembled the little Curtis Keyer kit I got from NorCal after a trip to Radio Shack for some pieces parts.

Sure can tell the difference between PC boards with/without solder

masking, but it's a simple board and I worked carefully and checked under a very big magnifying glass before applying power. I even used a socket for the 8044ABM chip.

Put the chip in and connected a VOM across the switched terminals and applied a 9v battery. Shorting the Common and DOT or DASH terminals with a clip lead caused the VOM needle to "dance" on and off. Varying the speed pot changed from Waltz to Watusi.

Disconnected the battery and clip leads and soldered a couple of 1/8" phone jack for the paddle and transmitter connections, plugged them in and re-applied the VOM and battery.

No dancing VOM. It switched "on" and stayed on. Also, I got heat from the 8044!! Shut down, checked for shorts, bridges, etc.. and put ammeter in-line with the 9v battery. Got over 400ma of current before I hit the switch.

Have checked and double checked and can't find anything shorted. Remove the chip and it draws no current. Conclusion: the Curtis chip is hosed!!!!

Question: is it possible that static from soldering the phone jack leads zapped it? Are those little guys that sensitive? Any insights would be appreciated.

At this point I'm a bit gun shy about buying another \$15 chip to see if that is the problem, but hate to give up so easily. I even had thought about mounting the keyer in an Altoids box....

73/72,

Jim, WK8G/2
jim.nestor@ey.com

From owner-qrp-l@lehigh.edu Sun Apr 21 22:37:35 1996
From: Kelly <kelman@dialnet.net>
Subject: [7483] Drift problem on MFJ 9040?
Message-ID: <199604211632.LAA10766@shell.dialnet.net>

Hello All:

I am sure this has been covered, but I am new to the QRP-L. I have just purchased a MFJ-9040. It works good, but seems to have a drift problem. I think it is

one of the earlier models. Any fixes out on this? Thank you in advance...

Kelly - WB0WQS.
Aurora, MO

From owner-qrp-1@lehigh.edu Sun Apr 21 22:37:35 1996
From: plquick@facstaff.wisc.edu (Paulette Quick, N90UH)
Subject: [7504] FDIM (c) Registration Update Three
Message-ID: <v02110100ada05d2b6e71@[144.92.104.148]>

Third Four Days In May (c) Registration Update
April 21, 1996

Total: 69 participants

Bob Gobrick, V01DRB/WA6ERB
Bruce Muscolino, W6TOY/3
Preston Douglas, WJ2V
Paulette Quick, N90UH
Tom Lifland, W2RFU
Lowell Corbin, KD8FR
Robin Corbin, NI9R
Chuck Adams, K5FO
George Dobbs, G3RJV
Dick Pascoe, G0BPS
Steve Karty, N4UHO
Daniel Puckett, WD8AAV
Roger Traylor, WB4TPW
Ted Albert, KF8EE
Hugh Matheson, WD8AAU
Ken Evans, KJ4XR
Richard Szakonyi, KA3ZOW
Kathy Szakonyi, N3SAD
Bill Kelsey, N8ET
John Foote, KR4GL
Robert Schill, N9ZZ
Vincent Passione, WA2ECP
Paul Goemans, WA9PWP
David Meacham, W6EMD
Ralph Irons, AA6UL
Bill Jones, KD7S
Buck Switzer, N8CQA
George Gingell, Jr., K3TKS
Ernest Antczak, NC8N
Pete Meier, WK8S

Monte Midkiff, N7TAU
Dan Winkler, N7IVR
Hank Kohl, K8DD
Frank Forsyth, AA8VN
Jim Fitton, W1FMR
Jeffrey Nelson, N2YVF
Michael Czuhajewski, WA8MCQ
Ronald Doyle, N8VAR
Serge Bertuzzo, VA3SB
Ralph Butler, K6ZAN
Will Perry, WA6LDQ
Richard Richmond, N4AFX
Larry Jones, N5OSG
Dave Benson, NN1G
Dennis Mangrobang, KQ6AG
Walter Windish, KB2JE
Gus Hintz, W2ZHA
Stan Cooper, K4DRD
Rick Zabrodski, VE6GK
Bob Follet, WA7FCU
William Eric McFadden, WD8RIF
David Feldman, WB0GAZ
Edward Manueal, Jr., N5EM
Robert Nygren, WA3YON
David Nygren, KE3OA
Michael Babineau, VE3WB
Jeffrey Nelson, N2YVF
Tony Fishpool, G2WIF
Graham Firth, G3MFJ
Jim Stafford, W4QO
William Hansgren, AA8EB
L. B. Cebik, W4RNL
Bill Steintenroth, K5ZTY
Alfred Moyle, Jr., N3KFL
Marvin Mitsuo Tanaka, KH6MM
Martin Lynch, KA1LXG
Albert Rea, W8LRM
Joseph Trombino, Jr., W2KJ

Checks returned for change in payee:

John Salony, WA3SRE
Dennis Cooper, K3NVI
Dick Kline, WB3BLM

Don Jackson, N3LAZ

From owner-qrp-l@lehigh.edu Sun Apr 21 22:37:35 1996
From: plquick@facstaff.wisc.edu (Paulette Quick, N90UH)
Subject: [7503] FDIM Three, Correction already
Message-ID: <v02110101ada05f7bf8bf@[144.92.104.148]>

Apologies to this kind person for the misspelling:

Edward Manuel, Jr., N5EM

Paulette Quick, N90UH
plquick@facstaff.wisc.edu
Madison WI

From owner-qrp-l@lehigh.edu Sun Apr 21 22:37:35 1996
From: Goemans <jgoemans@facstaff.wisc.edu>
Subject: [7490] Foxhuntin'
Message-ID: <199604211801.NAA17054@audumla.students.wisc.edu>

Hi gang,

Well, it's all over, the certificates are on the way. I thought I would let the gang here know my setup that enabled me to tie N6ULU for top foxhunting honors. No secret weapons ! Just a Butternut HF-6V vertical on garage roof with 3 sets of Butternut's STR radials, sloping a bit. The rig is my trusty Ten Tec Argosy II, with all the filters installed. Boy some nights I needed them all ! Toward the end I acquired a Timewave DSP59+, but NEVER used it in a foxhunt, wasn't good enough at using it yet ! Keyer was either a Bencher/Super CMOS 2 or a modified Brass Racer EK-1 (with an A and A board and Curtis 8044ABM IC).

Sorry to say I will miss the festivities at Dayton this year due to family commitments (my brother would not move his wedding date). So see you on the air as usual !!

72 Paul WA9PWP

Paul R Goemans WA9PWP
4326 Clover Ct
Madison, Wi.

QRP ARCI 7291 NorCal 1226 QRP-L 127 FISTS 2153

From owner-qrp-1@lehigh.edu Sun Apr 21 22:37:35 1996
From: KT3A@aol.com
Subject: [7498] Help with HamCalc
Message-ID: <960421203403_379925774@emout18.mail.aol.com>

I downloaded the Hamcalc from the QRP-L tools directory. I am having some trouble getting the program to run. Not being real familiar with GWBasic does not help. The batch files won't work either. I have the files in the right directory too. Any clues?

72 es tn timer de cameron, kt3a

From owner-qrp-1@lehigh.edu Sun Apr 21 22:37:35 1996
From: NYOUNG@nova.wright.edu
Subject: [7491] How I finished the RAC Digital Dial/Counter kit & it survived...
Message-ID: <01I3T2T7F0MQ8X0NYB@nova.wright.edu>

I actually think that I spent more time putting this little kit together than I did waiting for it to show up in the mail box. It was, like, check in the mail; box at the door.

A couple days ago I posted about having finished off the display board. It was easy. The parts were small so I didn't wear my glasses. The family left me alone. They took the axe and the pistol and hid 'em from me. The display kit went together without a hitch. I was itchin' to test it, but I had to wait 'til I'd finished the main board.

Bits and pieces at a time, I finished the main board on Friday and had it tested (the instructions demand that you test the board for shorts & proper voltages _before_ you put the chips in) out ok. I plugged in the chips. I plugged in the display board (it has a little double-row connector & ribbon wire that hoses it up to the main board). The numbers lit up. It even had the same readout on the frequency that the instructions said that it would. Then it went blank.

I stopped and re-read the instructions. I read about the auto-blank display function. I touched a button and the display came back. Same numbers. I was happy. So then I put a rca plug in the direct hole, switched to direct read out mode, held the other end of the rca plug/wire deal in the left hand and keyed the TR7 with the right hand. The dial on the TR7 and the numbers on the RAC kit were close enough. I was happy.

Yesterday and today I fiddled with the 4 front-panel-accessible memory functions. I used one as another direct frequency read out, and the other two I set up for use with the Argosy. That left one more, which I arbitrarily set up for a 455 kHz IF, what I'll probably never use, but that's another story.

So here's the deal: The Radio Adventures "Digital Dial/COUNTER" kit works real nice. The instructions are adequate for a person with a moderate amount of kit building experience. It is definitely not a first-timer kit (as I would say most of Heath stuff was). The boards are top-quality, plated-through holes (on the main board), solder masked, with parts outlines on the "component" side of each board. The user/installation instructions are very good. I say that because I could understand 'em and stuff worked the way it was supposed to when I pushed the appropriate buttons. I like the set-up so much that I'm not going to put it in the Argosy. I'm gonna wait for Lee to sell the cabinet and then I'll just leave it hooked up to whatever radio, sitting on top of all the other stuff that's sitting on top of all the radio stuff.

The internalized, self-contained counter/display for the Argosy is another story. I understand that Lee is going to have a 4-digit counter (the "Digital Dial" is a six-digit deal) in some sort of middle-level kit form soon enough. I'll get one of those for the Argosy. Right now, with the Digital Dial, I can fix up a way to get a readout for 15 different radios. That's 'cause there are 16 different display/memory options on the little beast.

Ain't technology great?

The address for Radio Adventures Co. is:

R.D. #4 Box 240
Franklin, PA 16323
FAX: 814-437-5355
VOX: 814-677-6456
email: rac@usa.net

The kits are about \$30 each (one kit for the display, one for the main or counter board) with about \$4 s/h.

73
Nils

By the way, I have no pecuniary connection to RAC, it's employees, those who depend on lots of money from any source whatsoever, or to the IRA, the IRS, the Crutch of Scientology, the Eskimo Socialist Trilateral Nationalist Front for the Liberation of Arctic Turns or any other batch of people with neater ideas than I do. Got that?

From owner-qrp-1@lehigh.edu Sun Apr 21 22:37:35 1996
From: UICMARK@aol.com
Subject: [7500] New to QRP (or stupid question #1)
Message-ID: <960421212008_277610996@emout18.mail.aol.com>

I have ordered a 40-9er kit and am looking forward to building and experimenting with it. One question occurs to me right off the bat. On such a small rig, how does one know what frequency the QSO is taking place on? I understand that there is a limited range in which the 40-9er will operate but do you have to ask the other station what frequency you are on?

thanks,

Mark Hobson
KE4ZBW

From owner-qrp-1@lehigh.edu Sun Apr 21 22:37:35 1996
From: Paul Harden <pharden@aoc.nrao.edu>
Subject: [7486] Nice FOX certificate Chuck
Message-ID: <199604211708.LAA16495@zia.aoc.nrao.edu>

Chuck and the gang,
Received my Fox Certificate yesterday in the mail. A truly first class job and intend on hanging it in the shack (promised the xyl I would clean it up as soon as I get back from Dayton). Great job, Chuck. I appreciate it, and the fox certificate will bring back evenings of memories everytime I look at it.

I particularly appreciate receiving one, considering one of the stipulations was mastering local-to-GMT conversions, inspite of the fact I missed the fox twice just for that reason. Thanks for sending mine anyway -hi.

Again, great job on the certificates.

72, Paul NA5N
QRP-L #138
ooops, #38

From owner-qrp-1@lehigh.edu Sun Apr 21 22:37:35 1996

From: WJ4PRandy@aol.com
Subject: [7502] ohr400 alignment
Message-ID: <960421224242_277670508@emout10.mail.aol.com>

Hi Paul,

You probably realize that you are adjusting the vfo.

When I got my '400 I did the alignment to get familiar with the rig. I also wanted to get the dial to read a bit more accurately. When I ran the alignment procedure my '400 did the same thing. I called OHR and explained the problem to Dick at OHR and he offered to put all the latest mods in and fix that problem too. I sent it in and he made all the improvements and it is way more stable but the dial still didnt follow the marks very well above "75". The problem has to do with the trimmer cap C134. It is very touchy temperature-wise and doesnt like to be touched by an alignment tool. OHR replaced C134 with a couple of fixed caps presumably to distribute the temperature sensitivity and give the right mix of values to replace the original variable. Getting the dial to read out accurately is not an easy task. Given the existing hardware (the air variable, C135) it seems it cant be done. It might be possible with a different air variable that uses a different rotor plate design so that there is some capacitance at minimum. Apparently they arent making new ones anymore. You probably also noticed the "fold back" thing at about 150 where you cant get it to track the dial at all up there. It was all pretty frustrating so I went to RS and bought a little freq counter to plug into the back and then I could tell exactly where I was. I guess the gist of the story is that I gave up! To be fair, if your not operating at the band edges, it doesnt matter a great deal about the dial accuracy. Sure made it tough to find the Fox though...or meet a sked. Of course, after I put the digital dial in the '400 it didnt matter where the

dial pointed.

Another thing I noticed in the alignment was that my band xtals wouldnt "net" so I elected to set them all off by the same amount as the "worst" one. That way, when all the mixing is through the dial would point at the same spot for all bands. BTW, Be sure to do the mod where you add a 1 Meg to R131. Fixes the chirp you make when the rit is off center.

73, Randy WJ4P

From owner-qrp-1@lehigh.edu Sun Apr 21 22:37:35 1996
From: "Al Hunter" <ahunter@inland.net>
Subject: [7477] Postscript files
Message-ID: <199604211502.IAA17789@ns1.inland.net>

To Vernon and others....

If you are using Win 3.1, 3.11, NT or Win95 you may want to try RoPS (ROger'sPostScript).The zip file includes both 16 and 32 bit versions. I have tried it with Win95 and have had no problems printing PostScript files to both a Canon bubble jet and an HP DeskJet printer. It is available at:

<http://www.winsite.com/pc/winnt/txtutil/rops3243.zip>

72, Al AA6SO

From owner-qrp-1@lehigh.edu Sun Apr 21 22:37:35 1996
From: Paul Harden <pharden@aoc.nrao.edu>
Subject: [7470] QRP Afield QTH Update
Message-ID: <199604210326.VAA24778@zia.aoc.nrao.edu>

Latest locations for QRP Afield ... updated Apr. 20 so I can use list on WWCR "Ham Radio and More" about QRP. (WWCR sunday Apr. 21 2206GMT/1800EDT/1600MDT on 7.435 and 12.160 MHz).

Hey, I'm real proud of you guys. You're coming up with some really neat locations from Ghost Towns to TWO Aeronautical mobiles, Tom Sawyer's tavern to some secret .007 camp in Canada. And have FUN we will! Take photo's; Doug will want some for QRPP (deadline right after QRP Afield) and the next issue, plus the other journals, and possibly CQ Magazine.

QRP AFIELD APRIL 27, 1996 - Locations of club or individual activity
Sorted by State or Province (SPC), location/club activity and calls.

CALL OP(s) SPC Club affil. QRP AFIELD LOCATION/comments

VE6DN	Rick	ALB	NorCal	Nr Catherine, Alberta
W5VB0	Brian	AZ	ScQRPions	White Tanks nr Litchfield
NQ7K	Mike	AZ	ScQRPions	" (west of Pheonix)
NQ7X	Floyd	AZ	ScQRPions	"
AB7PF	Steve	AZ-NM		AERONAUTICAL MOBILE OPERATION flying a
KC70MT	Steve			loop from Phoenix, Albuquerque, Riley,

back to Pheonix. HF and VHF, 2M
simplex ... more details later.

AA7QY Roger AZ ScQRPions Big Dry Wash, Mogollon Rim, AZ
AA7TQ AZ Act II ? (pronouced "moggie yone"), site of last
N7NXL AZ battle between Apaches and U.S. Army,
KI7MN AZ Gen. George Crook, commanding

KB50B/6 Jim CA NorCal Chilao Flats, 5300ft, San Gabriel mts.

WT6P Grover CA NorCal Malakoff Diggins - ghost town, world's
largest hydraulic gold mine, abandoned

W0HEP Rich CO CQC-1 Cherry Creek Reservoir - site of ancient
Indian village, south of Denver
?? ?? CO CQC-1 Certificate for working any CQC or Riley
station. SASE to station worked.

KI0G Bob CO CQC-2 Anvil Points - ghost town/pre-WW2 shale

oil town between Glenwood Spgs
KV0K Patrick CO CQC-2 and Grand Junction.

KD0SU Rick CO CQC-3 Florrisant Fossil Beds, near Pikes Peak

KG5N/0 Nick CO CQC-3 (west of Colorado Springs)
W0MCT Doc CO CQC-3 Fossil beds/dinosaur bones
N0UVR Dave CO CQC-3 (Going for the OLDEST site award?)

AL7GQ Geno CO CQC-5 Rocky Mountain Natl. Park
N0TFI Jess CO CQC-5 In Big Thompson Canyon ?

WB5QMP Randy ID NorCal Old Mica Mine in Idaho
JR0GFM Takeyasu JAPAN From nearby mountain
AK0B Stan MO Kenner's Tavern - historical site, near

where they filmed movie "Tom Sawyer"

N2CJ Joe NJ Country location nr Monroeville

AB50U Tim NM *CQC-4 Riley, NM - ghost town, west of Socorro

NA5N Paul NM *CQC-4 30 mi. on Rio Salado River. Occupied
WA5WHN Jay NM *CQC-4 1880's to 1930's, cattle and agriculture.
K5FO Chuck NM *NorCal Springs dried up in dust bowl years.
KI6DS Doug NM *NorCal Sherrif Bustamonte buried here, killed in
W5UXH Chuck NM *NorCal shootout with train robber Bronco Bill

KA8JMW Ed NM ABQ ARC Williams, 1908. \$50K from robbery buried
KB50ME Jason NM ABQ ARC near here. Will find while we're here!
N5ZGT Brian NM ABQ ARC Certificate for working any Riley or

WB5QYT Tom NM ABQ ARC CQC station. SASE to station worked.
W5UXH Chuck NM *NorCal Bustamonte Ranch, 2 mi. from Riley
*Equal opportunity club operation.

K9PV Howard NM Socorro "Val Verde" Civil War battlefield
ARC (Feb. 21, 1862) Ft. Craig, nr Socorro

N1IRZ/5 Dave NM Socorro Escondida Lake, NM
ARC Famous for absolutely nothing
KB2TED Kevin NY Fort Hamilton, nr Staten Island

N2VPK Mark NY Buffalo QRP Conn., opr nr Bethany, NY
KU7Y Ron NV Site pending (Area 51?)
NS80 Greg OH Waterloo Fire Lookout Tower

VA3JE John ONT Durham From "Camp X" old WW-II secret training
VE3KQN Jim ONT Region QRP base of British Intelligence Service,
VE3QDR Brien ONT Club Special Operations Executive. (neat!)
VE3REP Gary ONT (The .007 award?)

VE6GK Rick SASK AERONAUTICAL MOBILE from solar powered
"Doc" glider along Canadian Rockies 20M SSB/CW

KQ4AL Grover VA Campsite, Blue Ridge Pkwy.
AA6LU/4 Ralph VA Jefferson's Digs, nr Charlottesville

AA1PB Mill VT Gile Mt. Fire Lookout Tower, nr Norwich

W6EMT/7 Roy WA NWQRP Site pending
N7MFB Bill WA NWQRP Site pending
KV9X/7 Brian WA NWQRP Site pending

Please send updates to NA5N, pharden@nrao.edu

From owner-qrp-l@lehigh.edu Sun Apr 21 22:37:35 1996
From: Mike Czuhajewski <wa8mcq@u1.abs.net>
Subject: [7469] Send me your 40-9er RFCs?
Message-ID: <Pine.BSI.3.91.960420231558.5483A-100000@u1.abs.net>

I've been having a ball playing with pi net low pass filter design and analysis with the Filter Design System by Bob Lombardi, WB4EHS (available at ftp.lehigh.edu under the qrp-l area, under "tools" as FDS..something) and GPLA, the analysis program by W7ZOI that comes on the disk with his

book from ARRL (Intro to RF Design). But with all the talk floating around about harmonic suppression on the 40-9er and how poor it is, and considering the component values used in the original, plus some of the modified filter values posted recently, things just don't quite compute. I'd love to have some of those RF chokes that come with the 40-9er kit, specifically the 2.2 uH ones used in the input side and in the pi net output filter. I'd like to do some measurements on them, to see what the tolerance is--how close they actually are to 2.2 uH--and what the Q is, and perhaps most important of all, the self-resonant frequency. (Sad to say, I still have not built a 40-9er myself, though I do have two parts stuffed onto the PCB!)

If anyone has the chokes but has upgraded to toroids (as suggested in some of the postings), would you be willing to part with the 2.2 uH chokes? If you mail them to me, I'll mail you a stamp back (just toss them in a regular envelope with 32 cents on it, wrapped up a couple of times in a piece of paper), plus something of value--like a couple of toroids, perhaps, or something else of interest to a homebrewer. But please don't send the coils until you've sent me e-mail first; I don't want to have several hundred coils show up at my door--it'll cost me a fortune! I'll be happy with coils from two or three people, so I can get a fair sample size. (What I'd dearly love to have is coils from people who report substantially improved performance after replacing them with toroids.)

I wrote up an interesting little article on filters after the first few posts on 40-9er harmonics appeared, but keep rewriting it every week or so, whenever I come across something else that doesn't quite add up...maybe one of these days I'll get it posted, after I come up with The Unified Theory of Low Pass Filters as Applied to Class C Amps :-)

73 and Queue Our Pea DE WA8MCQ

wa8mcq@abs.net

From owner-qrp-1@lehigh.edu Sun Apr 21 22:37:35 1996
From: vhatley@usa.pipeline.com (Vernon A. Hatley)
Subject: [7482] Soldering PL 259...
Message-ID: <199604211626.MAA16592@pipe4.h1.usa.pipeline.com>

For soldering PL 259 without damaging the insulation, you need as big a gun as you can find. A friend of mine has always had trouble soldering PL 259 and I could never understand why till he told me he was trying it with a 75 watt solder gun. I use an old Weller 325 watt model and can have a PL259 solder on in no time with NO damage to the plastic. Lots of heat for a very short time has always worked best for me. The big soldering guns are usually available from home centers and lumber yards; (Home Depot, Lowes, Payless Cashways, etc...)

--

KK5RO
Vernon A. Hatley
QRP-L #325

Butternut Vertical
OHR Explorer II 40M
Ten-Tec Omni V

From owner-qrp-l@lehigh.edu Sun Apr 21 22:37:35 1996
From: adams@chuck.dallas.sgi.com (chuck adams)
Subject: [7501] St Louis Tuner from NorCal
Message-ID: <199604220227.CAA15472@chuck.dallas.sgi.com>

Gang,

I haven't gotten very far along on this puppy. Had to wait some period of time for the Krylon to dry. :-)

So, if you don't mind, I'll post as I go along and all of us that are at various stages can pass along hints and kinks.

The kit is a super deal (assumed of course considering the resources that NorCal has). The manual was a difficult piece of work for Doug and the group to put together and they are to be applauded for their work. Now people can really appreciate the work that Heathkit did to get their manuals out the door.

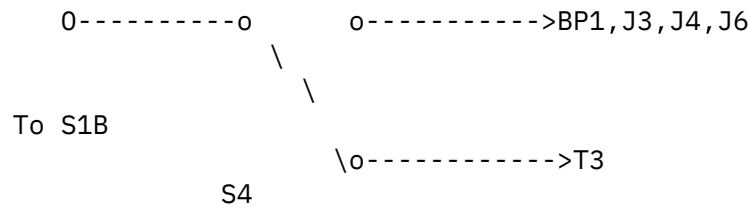
These are some things that I worked on and if I'm wrong someone speak right up.

Page 5, rear panel and posts and connectors. I got two red and two black posts (the five ways that a lot of us can only figure four ways they work!!!). I put the black ones at D and F. F is obvious as it is ground. Red ones to E and K, since K is the 'output' marked post on page 10 in the schematic.

In the A through J table on page 5 in bold print K is missing.

Page 10, the schematic:

1. S4 is not correct. It is used to switch between the Balun OR the BP1,J3-6 outputs. Both can not be active as wired. So the schematic should look like



2. Now, this is just my idea and all you antenna wizards, and ATU (antenna tuning unit) gurus can tell me if I'm wrong.

C5,C6,C7, and C8 are the four sections of the two dual-gang variable caps. C6 and C8 being the 15-73pF small sections and C5 and C7 being the 17-165pF caps. As marked in schematic on page 10 of the manual.

My preference would be to have the smaller sections in all the time and the larger sections switched out. My logic behind this is that with only the smaller sections in I have a greater control over small variations with larger angular movement in the dials and the smallest value would be 15pF. With the smaller sections in place of (now labeled C5 and C7) the inline at all times sections then I can have 15-73pF on the single section inline vs. 17-165pF with having the larger sections inline and the smaller sections switched in/out.

I haven't wired it yet and it could be the schematic does not match the wires, but most likely it does.

My opinion here and I'll let you know when I get that far in the wiring. Gotta be done by Friday.

Helpful hint on installation of the two caps and the nylon washers and screws. Place a cap on the desk with the shaft up. Place the three nylon washers over each of the three threaded holes. Now with all the eye-hand coordination you can muster lower the front panel over the cap and align the holes before the panel contacts the washers. Then with a free hand install each of the three nylon screws. If things shift a little, a small screwdriver gently

can be used to align the washers back to where they belong.

After you GENTLY tighten the screws you'll find, as Doug mentions, that the screws coming out of the bracket of the cap will obstruct the rotation of the plates.

Here is what I did. I hate putting any sharp object between rotating plates and the front panel. The potential for me to mess something up is too great. So, note how much of the screw extends into the cap area. Remove ONE screw and using either an Exacto Knife (my favorite) or a single edged razor blade (kids and razor blades and sometimes adults don't mix) remove just a little bit of the screw and put it back in. Check your work. Now do another ONE. Don't get in a hurry and do only one at a time. Make sure that the washer does not move or drop out during this procedure. Worked for me and it worked well, if I do say so myself. (as the sign read in the bandhall, "Be a Horn Tooter, Not a Horn Totter")

dit dit es tnx to St Louis Club and NorCal for another fine kit I haven't wound the big toroid yet, that's going to be very interesting. :-)

--

Chuck Adams (K5FO CP-60) adams@sgi.com
Box 181150, Dallas, TX 75218-8150

From owner-qrp-1@lehigh.edu Sun Apr 21 22:37:35 1996
From: ae4ic@nr.infi.net (BOB KELLOGG)
Subject: [7493] St. Louis Tuner
Message-ID: <199604212105.RAA05381@mh004.infi.net>

Gang, a St. Louis Tuner tunes! It's a nice little unit, too. Same case size as my Sierra, but this case is built like a tank. A *real* good design. So far, I've checked the tuner on 20M and 40M with my SWR sensitive rigs and it works fine.

CUL,
Bob Kellogg, AE4IC
Prolably, but not nececelery. - Benny Hill

From owner-qrp-1@lehigh.edu Sun Apr 21 22:37:35 1996
From: r.lawn@mail.utexas.edu (Richard J. Lawn)
Subject: [7492] TenTec Power Mite
Message-ID: <v01510104ad9ff159bb71@[128.83.128.127]>

I just picked up a TenTec Power Mite, which appears to be a version of the PM-1, PM-2 series. It is for 80, 40, and 20m. I have a two page info sheet on it but need a schematic and other info about the rig i.e. mods, possibility of adding bands. Any suggestions and info will be appreciated.

Rick
WB0WAG

Richard J. Lawn
Associate Dean
College of Fine Arts
FAB 2.4
University of Texas
(512) 471-1655

From owner-qrp-1@lehigh.edu Sun Apr 21 22:37:35 1996
From: js25@cityscape.co.uk (moyle)
Subject: [7478] The dreaded PL259
Message-ID: <199604211514.QAA22334@ns.cityscape.co.uk>

Hi every body!

And a big thank you for the SEVEN repliess I rx about my "dumb" question about soldering PL259 connectors. All the replies were helpful. I need to invest in a bigger soldering iron and a small pipe cutter!

Due to my profession I do not get much spare time to actually meet up with other amateurs so I'm finding this net a wonderful help!

73

Dr John Moyle <moyle@cityscape.co.uk> G1AWJ/2E0AIQ
MB, BS, IEng, MInstMC, DPallMed, FRCA
Consultant Anaesthetist - Milton Keynes General Hospital, MK6 5LD, UK
Medical Director - Willen Hospice Milton Keynes, MK15 9AB, UK

From owner-qrp-1@lehigh.edu Sun Apr 21 22:37:35 1996
From: stelpony@ix.netcom.com (Steel Pony)
Subject: [7487] Wanna swap stuff.....?(Mark II)
Message-ID: <199604211723.KAA09175@dfw-ix6.ix.netcom.com>

Hi Gang:

Off on another swapping jag again.

Offerings:

Several 000-999 counters with 10k. multi-turn pot. This is a 10 turn pot mfg by Bourns and is integrated with a 999 readout. Will fit in a 1.25 inch hole. Chrome & black in color. Overall length is 1.5 inches. New/never used. Use with NorCal 40A(or others)for digital frequency display without current drain. Value- 10.00 - 12.00US.

15 turns counter. Same as Clarostat 316-11. 1 inch across. See the article in QRPP pg 51-52 Mar 96 for an exact picture of these. Use as a turns counter for a rolling inductor or as a counter for readout(frequency) with a multi-turn pot. Used/Like New. Value- 4.00-5.00 US

Meters- 500uA. .5 x .75 mounting hole. Purchased from A&A Engineering as a close-out. New. They have no numbers, just a scale of approx. 75% of the face is black the rest is red. They were used in OEM mfg of QRP transceivers(I THINK). These would be nifty meters for the St. Louis Tuner if you missed out on the original run. Or a VERY small swr meter. Value- 2.50 US

The *Value* is what I have placed them at. You may do better elsewhere Does not include shipping.

Now, for what I need:

Manual for Ameco PT tranceiver pre-amp.

Owners manual for Icom 22A.

Owners manual for Hy-Gain Hy-Tower JUNIOR(not the Hy-Gain Hy-Tower). This was produced in the early 60's for a few years only.

Manual for a Drake R4-B.

Other goodies that might pique my interest.

Going out of town Monday for a few days, but will check E-mail before I go and when I get back mid-week.

Those of you who have traded with me before, I'm sure, will attest to my fairness.

Tnx es 72, John-N5INZ

From owner-qrp-1@lehigh.edu Sun Apr 21 22:37:35 1996
From: Jerry <jfelts@rapidcity.com>
Subject: [7472] RE:40-9ER SMOKE
Message-ID: <199604210538.XAA13670@host1.rapidcity.com>

Anybody got any hints on what to look for. While playing around the other day I smoked my 40-9er. The key lead touched the final and I got smoke and a nice smell. I replaced the final and still very little output, I then replaced Q2 with same results. The rig is putting out about 15 mw. I guess I'll drag out the meter and start taking voltage checks tomorrow. I can hear the output on another rx and it sounds good, just no output. What have I done?

From owner-qrp-1@lehigh.edu Sun Apr 21 22:37:35 1996
From: Jerry <jfelts@rapidcity.com>
Subject: [7473] RE:40-9ER SMOKE
Message-ID: <199604210541.XAA13683@host1.rapidcity.com>

>Date: Sat, 20 Apr 1996 23:24:08
>To: qrp-1@lehigh.edu
>From: Jerry <jfelts@rapidcity.com>
>Subject: RE:40-9ER SMOKE

>

>Anybody got any hints on what to look for. While playing around the other day I smoked my 40-9er. The key lead touched the final and I got smoke and a nice smell. I replaced the final and still very little output, I then replaced Q2 with same results. The rig is putting out about 15 mw. I guess I'll drag out the meter and start taking voltage checks tomorrow. I can hear the output on another rx and it sounds good, just no output. What have I done?

>

From owner-qrp-1@lehigh.edu Sun Apr 21 22:37:35 1996
From: Steven Wilson <randyw@crl.com>
Subject: [7475] RE:40-9ER SMOKE
Message-ID: <Pine.SUN.3.91.960421073209.20768A-100000@crl2.crl.com>

Check the final RF choke. I smoke it by shorting out the transistor.
Nice white smoke and a burn place on the board. Someone put out a test
list for the 49er. Check it, I think the burn out part will show up on
a DC test. de stan ak0b

On Sat, 20 Apr 1996, Jerry wrote:

> Anybody got any hints on what to look for. While playing around the other
> day I smoked my 40-9er. The key lead touched the final and I got smoke and a
> nice smell. I replaced the final and still very little output, I then
> replaced Q2 with same results. The rig is putting out about 15 mw. I guess
> I'll drag out the meter and start taking voltage checks tomorrow. I can hear
> the output on another rx and it sounds good, just no output. What have I done?
>
>
>

From owner-qrp-1@lehigh.edu Sun Apr 21 22:37:35 1996
From: dgf@netcom.com (David Feldman)
Subject: [7476] RE:40-9ER SMOKE
Message-ID: <199604211459.HAA19987@netcom3.netcom.com>

Unfortunately, I had another kind of smoke - I inadvertently soldered the
LM380-8 in ****BACKWARDS**** (AAARGHHH!!!!). I applied power, no audio.
Checked voltages & discovered my mistake. Unsoldered & reversed the
LM380-8, applied power, and no audio. About a minute later I discovered
a very hot LM380-8 and a dead 9V alkaline battery. AAARGHHHH!!!!

Anyway, so much for having my neighbor over for a beer whilst trying
to build the 49-er at the same time.

Now to find a LM380-8 in Denver on a Sunday. AAAAAARGHHHHHH!!!!

73 Dave WB0GAZ dgf@netcom.com

From owner-qrp-1@lehigh.edu Sun Apr 21 22:37:35 1996
From: talljazz@teleport.com (Dan Presley)
Subject: [7505] Re: A dumb Q about PL259

Message-ID: <v01530500ada0aa1597a3@[206.163.121.17]>

>Help!

>

>Is there an easy way of fitting PL259 connectors? The books all say just
>"solder the braid". I've melted everything including my fingers and never
>seem to get a good result. What is the lowest power the iron should be? Can
>one get connectors which don't need their braid soldered?

>

>73, John

><moyle@cityscape.co.uk

I was at a model railroad show one day looking at exhibits when I spotted a table with small torches and metalworking supplies. On closer inspection I spotted a display of PL-259s all soldered up, and I asked the fellow in charge about these. He replied, "you must be a ham, as no one else here knows what these are!". It turned out to be Fred Doob, who started a company called "Solder-it" which sells small torches and special pastes for all kinds of soldering. He demonstrated his technique for PL-259s & I was hooked! He sells a silver solder paste with a lower melting point than regular solders (or at least easier to deal with) and this works great on the connectors. I use a 100/140 watt gun and have had no trouble with good connections, and no destruction of the jacket or dielectric of the coax. His torch kit is great for field day or outdoor soldering on antennas-no interest other than satisfied customer. Check out his web page at <http://www.solder-it.com>. Address is PO box 20100 Cleveland, Oh 44120.

From owner-qrp-l@lehigh.edu Sun Apr 21 22:37:35 1996

From: "Robert J. Gobrick" <rgobrick@nfld.com>

Subject: [7485] Re: Drift problem on MFJ 9040? (LONG)

Message-ID: <2.2.32.19960420155717.00c2c5d4@public.compuser.net>

Kelly - here's an article I wrote a while back that may be of help.

HOW THE INTERNET FIXED MY MFJ-9030 RIG

Preamble: This article originally appeared in the March 1995 issue of the Colorado QRP Club newsletter the Low Down. It is being posted in the Internet QRP-L List archives for the benefit of qrp-l users.

I previously wrote a review for the ARCI QRP Quarterly about the MFJ-90xx series of 5 watt qrp rigs and in general, I believe them

to be the finest single band commercial qrp rigs on the market. What follows is a situation that occurred when MFJ made a number of modifications to this rig. I applaud MFJ for continually trying to improve their products. A case in point is this QRP rig. There have been a number of notable changes, both internally and externally, of this rig from it's first introduction. All these changes have enhanced an otherwise solid design. Every once in a while though a change goes astray. This is one of those times. From what I understand MFJ has rectified this problem since the time I wrote this article. But if you experience excessive drift in your MFJ-90xx then read on.

HOW THE INTERNET FIXED MY MFJ-9030 RIG

By Bob Gobrick V01DRB/WA6ERB
(Internet: rgobrick@nfld.com)
Revised for qrp-l on June 14, 1995

Is the Internet great or what? A few months ago I had a new MFJ-9030 30 meter cw transceiver that would drift 1800 Hz during the first half an hour. Today, with help from the Internet, it drifts less than 300 Hz in the first ten minutes. Actually I should have said "with help from the USERS of the Internet" my problem was solved.

My "search" for the 9030 drift solution, and more importantly the reason for the drift, started with a posting on the Internet QRP-L reflector list. The Colorado QRP Club posted some info on a drift problem with a new MFJ-9040 and some correspondence that went on with the 90xx designer Rick Littlefield K1BQT. It appeared that MFJ updated their 90xx printed circuit boards (from Revision 4 to 5A) and some new parts were added, in particular two VFO capacitors, C32 and C33. The old polystyrene caps were replaced with "better" multilayer monolithic capacitors. These changes were verified in the January 1994 issue of Joe Falcone AA8HV's "MFJ NINETIES" newsletter.

The drift that was occurring in the new revision 5A board was strange since a very early MFJ-9020 that I owned didn't exhibit this level of drift. Over on Compuserve Hamnet, I contacted the local MFJ rep, about the problem and he mentioned the drift was "normal", but he would send me some of the "old" polystyrene capacitors if I wanted to experiment. Meanwhile, over on the qrp-l list (qrp-l@lehigh.edu) debate began to grow about the problem. It appeared that all new models of the 90xx using the 5A revision boards were exhibiting some drift. Many ideas were tossed around on the qrp-l list and I was going with the notion that the 9030 needed some good quality NPO (zero temperature

coefficient) capacitors. But it wasn't until Joe Everhart N2CX came along and suggested that maybe what was needed was the original polystyrene caps, since they exhibit a negative drift trait which would "counter" the positive drift that the magnetic core TOKO inductor had. BINGO. I checked out Joe's theory with "W1FB's Design Notebook" and the Mouser Electronics catalog and sure enough Joe's theory looked promising.

Over to Compuserve Hamnet again, and the MFJ representative said he would send me the polystyrene caps. Installation was a breeze (the 5A board actually has two hole patterns for both the multilayer, as well as polystyrene caps - did they know something we didn't?). Ran my tests and drift was now down to less than 300 Hz from a cold Newfoundland turn-on. Just goes to show - don't fix something when it ain't broke. I am not sure what MFJ's policy will be, but they need to go back to their original VFO design, yet at the same time keep enhancing the circuit as they did with the 5A upgrade.

So thanks to MFJ, Joe N2CX, the Colorado QRP Club, the MFJ NINETIES newsletter, and of course the gang on the Internet QRP-L for fixing my rig. To boot, I worked St. Martin and Switzerland with my "new" drift-free MFJ-9030 and MFJ Super Hi-Q Loop a few hours after the repair. Now that I can't attribute to the Internet (why heck I could Email to St. Martin and Switzerland easier...)

At 11:32 4/21/96 -0500, you wrote:

>Hello All:

>

>I am sure this has been covered, but I am new to the QRP-L. I have just purchased a

>MFJ-9040. It works good, but seems to have a drift problem. I think it is one of the earlier models. Any fixes out on this? Thank you in advance...

>

> Kelly - WB0WQS.

> Aurora, MO

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| Bob Gobrick - VO1DRB/WA6ERB/VE2DRB - Newfoundland, Canada |
| QRPPer Galore - ARCI, GQRP, NORCAL, NEQRP, COQRP, MIQRP, NWQRP |
| Internet:      rgobrick@nfld.com |
|                bgobrick@nlnet.nf.ca |
| Compuserve:    70466.1405@compuserve.com |
|-----
```

From owner-qrp-1@lehigh.edu Sun Apr 21 22:37:35 1996
From: Kelly <kelman@dialnet.net>
Subject: [7488] Re: Drift problem with MFJ-9040
Message-ID: <199604211733.MAA11353@shell.dialnet.net>

Hello Again!

I have already got several great tips on my fix for the drift. I just knew that you guys were on top of this situation. Thank you very much, I'll give MFJ a call and order the new caps. Now, my next problem is low output on an Argonaut 509.....

73 From Kelly
WBOWQS

From owner-qrp-1@lehigh.edu Sun Apr 21 22:37:35 1996
From: Roger Hightower <aa7qy@dancris.com>
Subject: [7471] Re: QRP Afield QTH Update
Message-ID: <199604210350.UAA18840@user.dancris.com>

At 09:26 PM 4/20/96 -0600, Paul Harden wrote:
>Latest locations for QRP Afield ... updated Apr. 20 so I can use list
>on WWCR "Ham Radio and More" about QRP. (WWCR sunday Apr. 21 2206GMT/
>1800EDT/1600MDT on 7.435 and 12.160 MHz).
>

Hi Paul. LOTS of cool sites here. The write-up in QRPP should be really great.

One point...Nothing against the SQRPs, but AA7TQ, N7XNL, KI7MN and I are not part of them. Don't want to steal their thunder....just doing our own thing (The White Tank Mountains are desert mountains, and will be too hot....supposed to be in the 90's this weekend).

I've been asked to participate in the Ham Radio and More show...it'll be nice talking with you on the air.

73 es CU..Roger

NorCal 1099 CoQRP 176 QRP-L 62 G-QRP 9081 ARCI 8946 NE-QRP 383

From owner-qrp-1@lehigh.edu Sun Apr 21 22:37:35 1996
From: "P. Grover Cleveland" <wylde@nccn.net>
Subject: [7474] Re: QRP Afield QTH Update
Message-ID: <199604211431.HAA02379@nccn.net>

I'm going out of town on business. With any luck I'll be back for QRP Afield. If not, then the Malakoff operation is off.

73

Grover
WT6P

From owner-qrp-1@lehigh.edu Sun Apr 21 22:37:35 1996
From: Bob Hirsch <bobh@p3.net>
Subject: [7484] Re: Soldering PL 259...
Message-ID: <1.5.4.32.19960421163939.00698a6c@p3.net>

In addition to high heat, don't overlook the help a large mass of metal at the head of the iron can give you. Irons often have harger, more massive tips than guns do and the heat is much easier *transferred* than with a smaller tip. And that's one of keys, you want alot of heat, transfer it quickly and get the iron off the tip in a short time so the cable doesn't have time to melt.

=====
73 es CUL de KE3OB

Bob Hirsch
bobh@p3.net
qrp-arci #8700
qrp-1 #450
ARRL
=====

From owner-qrp-1@lehigh.edu Sun Apr 21 22:37:35 1996
From: cc wynn <wyn@worldnet.att.net>
Subject: [7494] Re: Wanna swap stuff.....?(Mark II)
Message-ID: <199604212128.VAA12438@mailhost.worldnet.att.net>

At 05:23 PM 4/21/96 +0000, stelpony wrote:

>

> Hi Gang:

>

>

> See the
> article in QRPP pg 51-52 Mar 96 for an exact picture of these. Use
> as a turns counter for a rolling inductor or as a counter for read-
> out(frequency) with a multi-turn pot. Used/Like New.

> Value- 4.00-5.00 US

March 96 QRPP! Oh no, has anyone besides me not received their Mar 96 QRPP yet?

72/73,

Clay N4AOX

wyn@worldnet.att.net

From owner-qrp-l@lehigh.edu Sun Apr 21 22:37:35 1996

From: "Rafael Garcia (EA4RJ)" <tie@bitmailer.net>

Subject: [7480] Re: [7419] Advertising

Message-ID: <Pine.LNX.3.91.960420201756.182B-100000@ea4rj.ampr.org>

On Fri, 19 Apr 1996, chuck adams wrote:

> Since they are so impressed I'm going to send them

> all 40MB of the postings. :-)

Good idea, but remove the headers to avoid they send back to everybody in the list, ;)

Rafael,

Madrid (Spain)